Message

From: gt4000@dnvps.com [gt4000@dnvps.com]
Sent: 3/6/2014 12:44:17 PM
To: Robert Love [rlove@aet-tankers.com]
CC: Eagle Louisiana [eagle.louisiana@aet-tankers.com]; AETSM - Team Atlantic [Team-Atl@aet-tankers.com]
Subject: EAGLE LOUISIANA, FUEL ANALYSIS REPORT, GIBRALTAR, 28-FEB-2014, SAMPLE : ROT1408144

To: AMERICAN EAGLE TANKERS, INC.
Attn: Mr Robert Love, Bunker Manager
Attn: Atlantic Fleet

Cc: The Master Of 'EAGLE LOUISIANA'
Attn: Chief Engineer

DNV Petroleum Services - Fuel Analysis Report dated: 06-Mar-2014

Vessel: **EAGLE LOUISIANA (9518892)**

Sample Number	ROT1408144
Product Type	(LSFO)
Bunker Port	GIBRALTAR
Bunker Date	28-Feb-2014
Sampling Point	SHIP MANIFOLD
Sampling Method	CONTINUOUS DRIP
Sent From	MALAGA
Date Sent	04-Mar-2014
Arrived at Lab	05-Mar-2014
Supplier	PENINSULA
Loaded From	CLIPPER BRICCO
Quantity per C.Eng.	950

Seal data: DNVPS, SEAL INTACT, 8058396

Related Samples

Supplier	8058397
Ship	8058398
Ship	8058399
SHIP MARPOL	8058400
MARPOL	30267

Receipt Data	Unit	
Source Of Data		B.D.N.
Density @ 15°C	kg/m³	988.7
Viscosity @ 50°C	mm²/s	377.3
Sulfur	% m/m	0.97
Volume @ 15°C	m³	961.335
Quantity	MT	950.472

Tested Parameter	Unit	Result	RMG380
Density @ 15°C	kg/m³	990.7	991.0
Viscosity @ 50°C	mm²/s	402.4	380.0
Water	% V/V	0.1	0.5
Micro Carbon Residue	% m/m	17	18
Sulfur	% m/m	1.04	1.00
Total Sediment Potential	% m/m	LT 0.01	0.10
Ash	% m/m	0.05	0.15
Vanadium	mg/kg	113	300
Sodium	mg/kg	19	
Aluminium	mg/kg	7	

Silicon	mg/kg	9	
Iron	mg/kg	34	
Nickel	mg/kg	80	
Calcium	mg/kg	2	
Magnesium	mg/kg	3	
Zinc	mg/kg	LT 1	
Phosphorus	mg/kg	LT 1	
Potassium	mg/kg	LT 1	
Pour Point	°C	LT 24	30
Flash Point	°C	GT 70	60
Acid Number	mg KOH/g	LT 0.10	
Strong Acid Number	mg KOH/g	0.00	

Calculated Values

Aluminium + Silicon	mg/kg	16	80
Net Specific Energy	MJ/kg	40.82	
CCAI (Ignition Quality)	-	851	
Quantity (Weight)	MT	951.337	
Quantity Difference	MT	0.865	

Note:
LT means Less Than, GT means Greater Than.
Quantity (Weight) is based on BDN Volume, DNVPS Density and a weight factor of 1.1 kg/m^3 (ASTM D1250-80 Table 56).

Specification Comparison :

Results compared with your amended ISO 8217:2005 specification RMG380, table 2.
Based on this sample please note the following:

- Marginally Above : Viscosity @ 50°C, Sulfur

Note: Viscosity @ 50°C, Sulfur have been retested and confirmed.

Operational Advice :

Approximate fuel temperatures:

Injection:
145°C for 10 mm^2/s
130°C for 15 mm^2/s
115°C for 20 mm^2/s
110°C for 25 mm^2/s

Transfer :
45°C

Sulfur - Based on this commercial sample, the fuel oil is potentially non-compliant if used within a designated Emission Control Area (ECA, ref MARPOL Annex VI Reg. 14(4)). It is recommended that the situation is recorded through a notification or Note of Protest (NoP) issued by the Master. Only the relevant official authorities can then advise on any further action necessary. Please note that the official MARPOL sample provided by the supplier is the governing sample regarding compliance with this statutory requirement. For assistance issuing the Note of Protest, please refer to DNVPS' Instruction Manual.

Best Regards,
On behalf of DNV Petroleum Services Pte Ltd
Arent Jansen
Technical Advisor

End of Report for EAGLE LOUISIANA

If not properly aligned, please change font to Courier New, size 10.

Reference to part(s) of this report which may lead to misinterpretation is prohibited.

For technical or operational advice or further information on this report please contact your nearest DNVPS office or contact us directly at
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Email : tvpnl155@dnvps.com